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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,179		10/20/2003	Seung Eon Moon	51876P400	3926
8791	7590	0 05/17/2005 EXAMINER			INER
		OFF TAYLOR &	MCNEIL, JENNIFER C		
SEVENTH I		OLLVAID	ART UNIT	PAPER NUMBER	
LOS ANGE	LES, CA	90025-1030	1775	<u>-</u>	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/690,179	MOON ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jennifer C. McNeil	1775			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet wi	th the correspondence address			
THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty vill apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>01 M</u>	larch 2005.				
· · · · · · · · · · · · · · · · · · ·		action is non-final.				
3)	Since this application is in condition for allowar closed in accordance with the practice under E	· ·				
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,2 and 4-7 is/are pending in the appl 4a) Of the above claim(s) 4-7 is/are withdrawn Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	from consideration.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to t	by the Examiner.			
	Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	•	, ,).		
Priority u	under 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1 Certified copies of the priority documents		119(a)-(d) or (f).			
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
	3. Copies of the certified copies of the prior	•	·			
	application from the International Bureau	•				
* S	See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	received.			
Attachment	t(s)					
	e of References Cited (PTO-892)		ummary (PTO-413)			
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		/Mail Date formal Patent Application (PTO-152) 			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 1, 2005 has been entered.

Election/Restrictions

Newly submitted claims 4-7 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the device may be made by a method other than laser ablation, photolithography and etching. For instance, the BST layer may be formed by CVD, sputtering, or thermal spray.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits.

Accordingly, claims 4-7 are withdrawn from consideration as being directed to a non-elected invention.

See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Yashima et al (US 6,806,553). Yashima teaches a tunable thin film capacitor comprising a MgO substrate, a BST film that may have a (111) orientation, and an electrode pattern formed on the BST film. Regarding the phrase "for use in on of a phase array antenna system and a satellite communication system", this is considered intended use only. (col. 17, lines 22-26; col. 23, lines 28-30; col. 33, lines 30-35; col. 36, lines 1-11). The method limitation of claim 2 is not considered to add structural definition over the article of the prior art.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawakubo et al (US 5,739,563). Kawakubo teaches a device comprising a substrate of MgO having formed thereon a coating of BST with a (111) orientation. Kawakubo also teaches an upper electrode formed over the BST film. The method limitation of claim 2 is not considered to add structural definition over the article of the prior art.

Response to Arguments

Applicant's arguments filed March 1, 2005 have been fully considered but they are not persuasive.

Applicant argues that Kawakubo teaches a semiconductor memory device having a lower electrode, and an upper electrode, while the instant claims are directed to a microwave tunable device where a lower electrode is not indispensable. Applicant's claims include "comprising" where additional features may be present, therefore the presence of a lower electrode in the prior art is still considered to possess the claimed limitations. The recitation of "microwave tunable device" is considered intended use,

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as is the "for use in" language. The prior art of the above rejections teaches all the structural limitations of the claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer C. McNeil whose telephone number is 571-272-1540. The examiner can normally be reached on 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Deborah Jones can be reached on 571-272-1535. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer McNeil May 12, 2005

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